



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/071,449
Source: USPE
Date Processed by STIC: 2/27/2002

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

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- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

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Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
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U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002

Does Not Comply
Corrected Diskette Needed



OIKE

RAW SEQUENCE LISTING

DATE: 02/27/2002

PATENT APPLICATION: US/10/071,499

TIME: 14:24:21

Input Set : A:\EP.txt

Output Set: N:\CRF3\02272002\J071499.raw

The type of errors shown exist throughout
the Sequence Listing. Please check subsequent
sequences for similar errors.

1 <110> APPLICANT: American Home Products
W--> 2 <120> TITLE OF INVENTION: Modified and Stabilized GDF
W--> 3 <130> FILE REFERENCE: 01997.002000<140> Not-Yet-Assigned<141>
C--> 4 <140> CURRENT APPLICATION NUMBER: US/10/071,499
C--> 4 <141> CURRENT FILING DATE: 2002-02-08
4 <150> PRIOR APPLICATION NUMBER: US 60/267,509<151> 2001-02-08<160> 16 <170> PatentIn

ERRORED SEQUENCES

major formatting error. Contact Bob Wax

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W--> 7 <212> TYPE:
W--> 7 <213> ORGANISM:
E--> 7 <400> SEQUENCE:
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12 20 25 30
15 Val Glu Lys Glu Gly Leu Cys Asn Ala Cys Thr Trp Arg Gln Asn Thr
16 35 40 45
19 Lys Ser Ser Arg Ile Glu Ala Ile Lys Ile Gln Ile Leu Ser Lys Leu
20 50 55 60
23 Arg Leu Glu Thr Ala Pro Asn Ile Ser Lys Asp Val Ile Arg Gln Leu
24 65 70 75 80
27 Leu Pro Lys Ala Pro Pro Leu Arg Glu Leu Ile Asp Gln Tyr Asp Val
28 85 90 95
31 Gln Arg Asp Asp Ser Ser Asp Gly Ser Leu Glu Asp Asp Asp Tyr His
32 100 105 110
35 Ala Thr Thr Glu Thr Ile Ile Thr Met Pro Thr Glu Ser Asp Phe Leu
36 115 120 125
39 Met Gln Val Asp Gly Lys Pro Lys Cys Cys Phe Phe Lys Phe Ser Ser
40 130 135 140
43 Lys Ile Gln Tyr Asn Lys Val Val Lys Ala Gln Leu Trp Ile Tyr Leu
44 145 150 155 160
47 Arg Pro Val Glu Thr Pro Thr Thr Val Phe Val Gln Ile Leu Arg Leu
48 165 170 175
51 Ile Lys Pro Met Lys Asp Gly Thr Arg Tyr Thr Gly Ile Arg Ser Leu
52 180 185 190
55 Lys Leu Asp Met Asn Pro Gly Thr Gly Ile Trp Gln Ser Ile Asp Val
56 195 200 205
59 Lys Thr Val Leu Gln Asn Trp Leu Lys Gln Pro Glu Ser Asn Leu Gly
60 210 215 220

at 703-306-4119
or 703-308-4216

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PATENT APPLICATION: US/10/071,499

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67 Phe Pro Gly Pro Gly Glu Asp Gly Leu Asn Pro Phe Leu Glu Val Lys
68                245                250                255
71 Val Thr Asp Thr Pro Lys Arg Ser Arg Arg Asp Phe Gly Leu Asp Cys
72                260                265                270
75 Asp Glu His Ser Thr Glu Ser Arg Cys Cys Arg Tyr Pro Leu Thr Val
76                275                280                285
79 Asp Phe Glu Ala Phe Gly Trp Asp Trp Ile Ile Ala Pro Lys Arg Tyr
80                290                295                300
83 Lys Ala Asn Tyr Cys Ser Gly Glu Cys Glu Phe Val Phe Leu Gln Lys
84 305                310                315                320
87 Tyr Pro His Thr His Leu Val His Gln Ala Asn Pro Arg Gly Ser Ala
88                325                330                335
91 Gly Pro Cys Cys Thr Pro Thr Lys Met Ser Pro Ile Asn Met Leu Tyr
92                340                345                350
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E--> 104 <400> SEQUENCE:

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108 gcatgtactt ggagacaaaa cactaaatct tcaagaatag aagccattaa gatacaaatc      180
110 ctacagtaaac ttcgtctgga aacagctcct aacatcagca aagatgttat aagacaactt      240
112 ttacccaaag ctccctccact ccgggaactg attgatcagt atgatgtcca gagggatgac      300
114 agcagcgatg gctctttgga agatgacgat tatcacgcta caacggaaac aatcattacc      360
116 atgcctacag agtctgattt tctaattgaa gtggatggaa aacccaaatg ttgcttcttt      420
118 aaatttagct ctaaaataca atacaataaa gtagtaaagg cccaactatg gatataattg      480
120 agaccgctcg agactcctac aacagtgttt gtgcaaatcc tgagactcat caaacctatg      540
122 aaagacggtg caagggtatac tgggaatccg tctctgaaac ttgacatgaa cccaggcact      600
124 ggtatttggc agagcattga tgtgaagaca gtgttgcaaa attggctcaa acaacctgaa      660
126 tccaacttag gcattgaaat aaaagcttta gatgagaatg gtcatgatct tgctgtaacc      720
128 ttcccaggac caggagaaga tgggctgaat ccgttttttag aggtcaaggt aacagacaca      780
130 ccaaaaagat ccagaaggga ttttggtctt gactgtgatg agcactcaac agaatcacga      840
132 tgctgtcggt accctctaac tgtggatttt gaagcttttg gatgggattg gattatcgct      900
134 cctaaaagat ataaggccaa ttactgctct ggagagtgtg aatttgtatt ttacaaaaaa      960
136 tatectcata ctcatctggt acaccaagca aacccagag gttcagcagg cccttgctgt      1020
138 actcccacaa agatgtctcc aattaatatg ctatatTTTA atggcaaaga acaaataata      1080
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W--> 145 <212> TYPE:

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/071,499

DATE: 02/27/2002

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Output Set: N:\CRF3\02272002\J071499.raw

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146 1 5 10 15
149 Arg Tyr Pro Leu Thr Val Asp Phe Glu Ala Phe Gly Trp Asp Trp Ile
150 20 25 30
153 Ile Ala Pro Lys Arg Tyr Lys Ala Asn Tyr Cys Ser Gly Glu Cys Glu
154 35 40 45
157 Phe Val Phe Leu Gln Lys Tyr Pro His Thr His Leu Val His Gln Ala
158 50 55 60
161 Asn Pro Arg Gly Ser Ala Gly Pro Cys Cys Thr Pro Thr Lys Met Ser
162 65 70 75 80
165 Pro Ile Asn Met Leu Tyr Phe Asn Gly Lys Glu Gln Ile Ile Tyr Gly
166 85 90 95
169 Lys Ile Pro Ala Met Val Val Asp Arg Cys Gly Cys Ser
170 100 105

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E--> 174 <400> SEQUENCE:

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176 actgtggatt ttgaagcttt tggatgggat tggattatcg ctctaaaag atataaggcc 120
178 aattactgct ctggagagtg tgaatttgta tttttacaaa aatatacctca tactcatctg 180
180 gtacaccaag caaaccacag aggttcagca ggcccttgct gtactccac aaagatgtct 240
182 ccaattaata tgctatatatt taatggcaaa gaacaaataa tatatgggaa aattccagcg 300
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E--> 189 <400> SEQUENCE:

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193 Asn Ala Cys Thr Trp Arg Gln Asn Thr Lys Ser Ser Arg Ile Glu Ala
194 20 25 30
197 Ile Lys Ile Gln Ile Leu Ser Lys Leu Arg Leu Glu Thr Ala Pro Asn
198 35 40 45
201 Ile Ser Lys Asp Val Ile Arg Gln Leu Leu Pro Lys Ala Pro Pro Leu
202 50 55 60
205 Arg Glu Leu Ile Asp Gln Tyr Asp Val Gln Arg Asp Asp Ser Ser Asp
206 65 70 75 80
209 Gly Ser Leu Glu Asp Asp Asp Tyr His Ala Thr Thr Glu Thr Ile Ile
210 85 90 95
213 Thr Met Pro Thr Glu Ser Asp Phe Leu Met Gln Val Asp Gly Lys Pro
214 100 105 110
217 Lys Cys Cys Phe Phe Lys Phe Ser Ser Lys Ile Gln Tyr Asn Lys Val
218 115 120 125
221 Val Lys Ala Gln Leu Trp Ile Tyr Leu Arg Pro Val Glu Thr Pro Thr
222 130 135 140
225 Thr Val Phe Val Gln Ile Leu Arg Leu Ile Lys Pro Met Lys Asp Gly

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226 145          150          155          160
229 Thr Arg Tyr Thr Gly Ile Arg Ser Leu Lys Leu Asp Met Asn Pro Gly
230          165          170          175
233 Thr Gly Ile Trp Gln Ser Ile Asp Val Lys Thr Val Leu Gln Asn Trp
234          180          185          190
237 Leu Lys Gln Pro Glu Ser Asn Leu Gly Ile Glu Ile Lys Ala Leu Asp
238          195          200          205
241 Glu Asn Gly His Asp Leu Ala Val Thr Phe Pro Gly Pro Gly Glu Asp
242          210          215          220
245 Gly Leu Asn Pro Phe Leu Glu Val Lys Val Thr Asp Thr Pro Lys Arg
246 225          230          235          240
249 Ser Arg Arg
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256 tggagacaaa acactaaatc ttcaagaata gaagccatta agatacaaat cctcagtaaa      120
258 cttcgtcttg aaacagctcc taacatcagc aaagatgtta taagacaact ttaccctaaa      180
260 gtcctccac tccgggaact gattgatcag tatgatgtcc agagggatga cagcagcgat      240
262 ggctcttttg aagatgacga ttatcacgct acaacggaaa caatcattac catgcctaca      300
264 gagtctgatt ttctaattgca agtggatgga aaacccaaat gttgcttctt taaatttagc      360
266 tctaaaatac aatacaataa agtagtaaag gcccaactat ggatatattt gagaccgctc      420
268 gagactccta caacagtgtt tgtgcaaadc ctgagactca tcaaacctat gaaagacggt      480
270 acaaggataa ctggaatccg atctctgaaa cttgacatga acccaggcac tggattttgg      540
272 cagagcattg atgtgaagac agtgttgcaa aattggctca aacaacctga atccaactta      600
274 ggcattgaaa taaaagcttt agatgagaat ggtcatgac ttgctgtaac cttcccagga      660
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287 Glu Leu Arg Pro Arg Gly Glu Ala Ala Glu Gly Pro Ala Ala Ala Ala
288          20          25          30
291 Ala Ala Ala Ala Ala Ala Ala Ala Ala Gly Val Gly Gly Glu Arg Ser
292          35          40          45
295 Ser Arg Pro Ala Pro Ser Val Ala Pro Glu Pro Asp Gly Cys Pro Val
296          50          55          60
299 Cys Val Trp Arg Gln His Ser Arg Glu Leu Arg Leu Glu Ser Ile Lys
300 65          70          75          80
303 Ser Gln Ile Leu Ser Lys Leu Arg Leu Lys Glu Ala Pro Asn Ile Ser
304          85          90          95
307 Arg Glu Val Val Lys Gln Leu Leu Pro Lys Ala Pro Pro Leu Gln Gln
308          100          105          110

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PATENT APPLICATION: US/10/071,499

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Output Set: N:\CRF3\02272002\J071499.raw

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311 Ile Leu Asp Leu His Asp Phe Gln Gly Asp Ala Leu Gln Pro Glu Asp
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315 Phe Leu Glu Glu Asp Glu Tyr His Ala Thr Thr Glu Thr Val Ile Ser
316      130      135      140
319 Met Ala Gln Glu Thr Asp Pro Ala Val Gln Thr Asp Gly Ser Pro Leu
320 145      150      155      160
323 Cys Cys His Phe His Phe Ser Pro Lys Val Met Phe Thr Lys Val Leu
324      165      170      175
327 Lys Ala Gln Leu Trp Val Tyr Leu Arg Pro Val Pro Arg Pro Ala Thr
328      180      185      190
331 Val Tyr Leu Gln Ile Leu Arg Leu Lys Pro Leu Thr Gly Glu Gly Thr
332      195      200      205
335 Ala Gly Gly Gly Gly Gly Gly Arg Arg His Ile Arg Ile Arg Ser Leu
336      210      215      220
339 Lys Ile Glu Leu His Ser Arg Ser Gly His Trp Gln Ser Ile Asp Phe
340 225      230      235      240
343 Lys Gln Val Leu His Ser Trp Phe Arg Gln Pro Gln Ser Asn Trp Gly
344      245      250      255
347 Ile Glu Ile Asn Ala Phe Asp Pro Ser Gly Thr Asp Leu Ala Val Thr
348      260      265      270
351 Ser Leu Gly Pro Gly Ala Glu Gly Leu His Pro Phe Met Glu Leu Arg
352      275      280      285
355 Val Leu Glu Asn Thr Lys Arg Ser Arg Arg Asn Leu Gly Leu Asp Cys
356      290      295      300
359 Asp Glu His Ser Ser Glu Ser Arg Cys Cys Arg Tyr Pro Leu Thr Val
360 305      310      315      320
363 Asp Phe Glu Ala Phe Gly Trp Asp Trp Ile Ile Ala Pro Lys Arg Tyr
364      325      330      335
367 Lys Ala Asn Tyr Cys Ser Gly Gln Cys Glu Tyr Met Phe Met Gln Lys
368      340      345      350
371 Tyr Pro His Thr His Leu Val Gln Ala Asn Pro Arg Gly Ser Ala
372      355      360      365
375 Gly Pro Cys Cys Thr Pro Thr Lys Met Ser Pro Ile Asn Met Leu Tyr
376      370      375      380
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W--> 388 <213> ORGANISM:

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E--> 388 <400> SEQUENCE:

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392 gcggggggtcg ggggggagcg ctccagcccg ccagccccgt ccgtggcgcc cgagccggac 180
394 ggctgccccg tgtgcgtttg gcggcagcac agccgcgagc tgcgcctaga gaggcatcaag 240
396 tcgcagatct tgagcaaact gcggctcaag gaggcgccca acatcagccg cgagggtggtg 300
398 aagcagctgc tgcccaaggc gccgcgcgtg cagcagatcc tggacctaca cgacttcag 360

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404 tgctgccatt ttcacttcag ccccaagggtg atgttcacaa aggtactgaa ggcccagctg 540
406 tgggtgtacc tacggcctgt accccgcccga gccacagtct acctgcagat cttgcgacta 600
408 aaaccacctaa ctggggaagg gaccgcaggg ggagggggcg gaggccggcg tcacatccgt 660
410 atccgctcac tgaagattga gctgcactca cgctcaggcc attggcagag catcgacttc 720
412 aagcaagtgc tacacagctg gttccgcccag ccacagagca actggggcat cgagatcaac 780
414 gcctttgatc ccagtggcac agacctggct gtcacctccc tggggccggg agccgagggg 840
416 ctgcatccat tcatggagct tcgagtccca gagaacacaa aacgttcccg gcggaacctg 900
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422 tgctccggcc agtgcgagta catgttcatt caaaaatata cgcatacca tttggtgcag 1080
424 caggccaatc caagaggctc tgctgggccc tgttgtaacc ccaccaagat gtccccaatc 1140
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438 20 25 30
441 Ile Ala Pro Lys Arg Tyr Lys Ala Asn Tyr Cys Ser Gly Gln Cys Glu
442 35 40 45
445 Tyr Met Phe Met Gln Lys Tyr Pro His Thr His Leu Val Gln Gln Ala
446 50 55 60
449 Asn Pro Arg Gly Ser Ala Gly Pro Cys Cys Thr Pro Thr Lys Met Ser
450 65 70 75 80
453 Pro Ile Asn Met Leu Tyr Phe Asn Asp Lys Gln Gln Ile Ile Tyr Gly
454 85 90 95
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466 aactactgct ccggccagtg cgagtacatg ttcatgcaaa aatatccgca taccatttg 180
468 gtgcagcagg ccaatccaag aggctctgct gggccctggt gtacccccac caagatgtcc 240
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PATENT APPLICATION: US/10/071,499

DATE: 02/27/2002

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482          20          25          30
485 Pro Glu Pro Asp Gly Cys Pro Val Cys Val Trp Arg Gln His Ser Arg
486          35          40          45
489 Glu Leu Arg Leu Glu Ser Ile Lys Ser Gln Ile Leu Ser Lys Leu Arg
490          50          55          60
493 Leu Lys Glu Ala Pro Asn Ile Ser Arg Glu Val Val Lys Gln Leu Leu
494 65          70          75          80
497 Pro Lys Ala Pro Pro Leu Gln Gln Ile Leu Asp Leu His Asp Phe Gln
498          85          90          95
501 Gly Asp Ala Leu Gln Pro Glu Asp Phe Leu Glu Glu Asp Glu Tyr His
502          100         105         110
505 Ala Thr Thr Glu Thr Val Ile Ser Met Ala Gln Glu Thr Asp Pro Ala
506          115         120         125
509 Val Gln Thr Asp Gly Ser Pro Leu Cys Cys His Phe His Phe Ser Pro
510          130         135         140
513 Lys Val Met Phe Thr Lys Val Leu Lys Ala Gln Leu Trp Val Tyr Leu
514 145         150         155         160
517 Arg Pro Val Pro Arg Pro Ala Thr Val Tyr Leu Gln Ile Leu Arg Leu
518          165         170         175
521 Lys Pro Leu Thr Gly Glu Gly Thr Ala Gly Gly Gly Gly Gly Gly Arg
522          180         185         190
525 Arg His Ile Arg Ile Arg Ser Leu Lys Ile Glu Leu His Ser Arg Ser
526          195         200         205
529 Gly His Trp Gln Ser Ile Asp Phe Lys Gln Val Leu His Ser Trp Phe
530          210         215         220
533 Arg Gln Pro Gln Ser Asn Trp Gly Ile Glu Ile Asn Ala Phe Asp Pro
534 225         230         235         240
537 Ser Gly Thr Asp Leu Ala Val Thr Ser Leu Gly Pro Gly Ala Glu Gly
538          245         250         255
541 Leu His Pro Phe Met Glu Leu Arg Val Leu Glu Asn Thr Lys Arg Ser
542          260         265         270
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549 <210> SEQ ID NO: 12<211> 822<212> DNA<213> Homo sapiens<400> 12

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W--> 550 <212> TYPE:

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554 tgcgtttggc ggcagcacag ccgcgagctg cgcctagaga gcatcaagtc gcagatcttg      180
556 agcaaaactgc ggctcaagga ggcgcccac atcagccgcg aggtggtgaa gcagctgctg      240
558 cccaaggcgc cgccgtgca gcagatcctg gacctacacg acttccaggg cgacgcgctg      300
560 cagcccagag acttcttgga ggaggacgag taccacgccca ccaccgagac cgtcattagc      360
562 atggcccagg agacggaccc agcagtacag acagatggca gccctctctg ctgccatttt      420
564 cacttcagcc ccaaggtgat gttcacaag gtactgaagg ccagctgtg ggtgtacct      480

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RAW SEQUENCE LISTING

DATE: 02/27/2002

PATENT APPLICATION: US/10/071,499

TIME: 14:24:21

Input Set : A:\EP.txt

Output Set: N:\CRF3\02272002\J071499.raw

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566 cggcctgtac cccgccagc cacagtctac ctgcagatct tgcgactaaa acccctaact      540
568 ggggaaggga ccgcagggg agggggcgga ggccggcgtc acatccgtat ccgtcactg      600
570 aagattgagc tgcactcacg ctcaggccat tggcagagca tcgacttcaa gcaagtgcta      660
572 cacagctggt tccgccagcc acagagcaac tggggcatcg agatcaacgc ctttgatccc      720
574 agtggcacag acctggctgt cacctccctg gggccgggag ccgaggggct gcatccattc      780
576 atggagcttc gagtctaga gaacacaaaa cgttcccggc gg                        822
579 <210> SEQ ID NO: 13<211> 23<212> PRT<213> Homo sapiens<400> 13

W--> 581 <211> LENGTH:
W--> 581 <212> TYPE:
W--> 581 <213> ORGANISM:
E--> 581 <400> SEQUENCE:
581 Met Gln Lys Leu Gln Leu Cys Val Tyr Ile Tyr Leu Phe Met Leu Ile
582 1                      5                      10                      15
585 Val Ala Gly Pro Val Asp Leu
586                      20
589 <210> SEQ ID NO: 14<211> 24<212> PRT<213> Homo sapiens<400> 14

W--> 591 <211> LENGTH:
W--> 591 <212> TYPE:
W--> 591 <213> ORGANISM:
E--> 591 <400> SEQUENCE:
591 Met Val Leu Ala Ala Pro Leu Leu Leu Gly Phe Leu Leu Leu Ala Leu
592 1                      5                      10                      15
595 Glu Leu Arg Pro Arg Gly Glu Ala
596                      20
599 <210> SEQ ID NO: 15<211> 232<212> PRT<213> Homo sapiens<400> 15

W--> 601 <211> LENGTH:
W--> 601 <212> TYPE:
W--> 601 <213> ORGANISM:
E--> 601 <400> SEQUENCE:
601 Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala
602 1                      5                      10                      15
605 Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro
606                      20                      25                      30
609 Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val
610                      35                      40                      45
613 Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val
614                      50                      55                      60
617 Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln
618 65                      70                      75                      80
621 Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln
622                      85                      90                      95
625 Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala
626                      100                     105                     110
629 Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro
630                      115                     120                     125
633 Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr
634                      130                     135                     140
637 Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser
638 145                     150                     155                     160

```

RAW SEQUENCE LISTING

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```

641 Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr
642          165          170          175
645 Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr
646          180          185          190
649 Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe
650          195          200          205
653 Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys
654          210          215          220
657 Ser Leu Ser Leu Ser Pro Gly Lys
658 225          230
661 <210> SEQ ID NO: 16<211> 227<212> PRT<213> Homo sapiens<400> 16

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W--> 663 <211> LENGTH:

W--> 663 <212> TYPE:

W--> 663 <213> ORGANISM:

E--> 663 <400> SEQUENCE:

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663 Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Ala Leu Gly
664 1          5          10          15
667 Ala Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met
668          20          25          30
671 Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His
672          35          40          45
675 Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val
676          50          55          60
679 His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr
680 65          70          75          80
683 Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly
684          85          90          95
687 Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile
688          100          105          110
691 Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val
692          115          120          125
695 Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser
696          130          135          140
699 Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu
700 145          150          155          160
703 Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro
704          165          170          175
707 Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val
708          180          185          190
711 Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met
712          195          200          205
715 His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser
716          210          215          220
719 Pro Gly Lys
720 225

```

VERIFICATION SUMMARY

DATE: 02/27/2002

PATENT APPLICATION: US/10/071,499

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Input Set : A:\EP.txt

Output Set: N:\CRF3\02272002\J071499.raw

L:2 M:283 W: Missing Blank Line separator, <120> field identifier
L:3 M:283 W: Missing Blank Line separator, <130> field identifier
L:4 M:270 C: Current Application Number differs, Replaced Current Application No
L:4 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:5 M:283 W: Missing Blank Line separator, <210> field identifier
L:7 M:282 W: Numeric Field Identifier Missing, <211> is required.
L:7 M:282 W: Numeric Field Identifier Missing, <212> is required.
L:7 M:282 W: Numeric Field Identifier Missing, <213> is required.
L:7 M:200 E: Mandatory Header Field missing, <400> is required.
L:104 M:282 W: Numeric Field Identifier Missing, <211> is required.
L:104 M:282 W: Numeric Field Identifier Missing, <212> is required.
L:104 M:282 W: Numeric Field Identifier Missing, <213> is required.
L:104 M:200 E: Mandatory Header Field missing, <400> is required.
L:145 M:282 W: Numeric Field Identifier Missing, <211> is required.
L:145 M:282 W: Numeric Field Identifier Missing, <212> is required.
L:145 M:282 W: Numeric Field Identifier Missing, <213> is required.
L:145 M:200 E: Mandatory Header Field missing, <400> is required.
L:174 M:282 W: Numeric Field Identifier Missing, <211> is required.
L:174 M:282 W: Numeric Field Identifier Missing, <212> is required.
L:174 M:282 W: Numeric Field Identifier Missing, <213> is required.
L:174 M:200 E: Mandatory Header Field missing, <400> is required.
L:189 M:282 W: Numeric Field Identifier Missing, <211> is required.
L:189 M:282 W: Numeric Field Identifier Missing, <212> is required.
L:189 M:282 W: Numeric Field Identifier Missing, <213> is required.
L:189 M:200 E: Mandatory Header Field missing, <400> is required.
L:254 M:282 W: Numeric Field Identifier Missing, <211> is required.
L:254 M:282 W: Numeric Field Identifier Missing, <212> is required.
L:254 M:282 W: Numeric Field Identifier Missing, <213> is required.
L:254 M:200 E: Mandatory Header Field missing, <400> is required.
L:283 M:282 W: Numeric Field Identifier Missing, <211> is required.
L:283 M:282 W: Numeric Field Identifier Missing, <212> is required.
L:283 M:282 W: Numeric Field Identifier Missing, <213> is required.
L:283 M:200 E: Mandatory Header Field missing, <400> is required.
L:388 M:282 W: Numeric Field Identifier Missing, <211> is required.
L:388 M:282 W: Numeric Field Identifier Missing, <212> is required.
L:388 M:282 W: Numeric Field Identifier Missing, <213> is required.
L:388 M:200 E: Mandatory Header Field missing, <400> is required.
L:433 M:282 W: Numeric Field Identifier Missing, <211> is required.
L:433 M:282 W: Numeric Field Identifier Missing, <212> is required.
L:433 M:282 W: Numeric Field Identifier Missing, <213> is required.
L:433 M:200 E: Mandatory Header Field missing, <400> is required.
L:462 M:282 W: Numeric Field Identifier Missing, <211> is required.
L:462 M:282 W: Numeric Field Identifier Missing, <212> is required.
L:462 M:282 W: Numeric Field Identifier Missing, <213> is required.
L:462 M:200 E: Mandatory Header Field missing, <400> is required.
L:477 M:282 W: Numeric Field Identifier Missing, <211> is required.
L:477 M:282 W: Numeric Field Identifier Missing, <212> is required.
L:477 M:282 W: Numeric Field Identifier Missing, <213> is required.

VERIFICATION SUMMARY

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Input Set : A:\EP.txt

Output Set: N:\CRF3\02272002\J071499.raw

L:477 M:200 E: Mandatory Header Field missing, <400> is required.
L:550 M:282 W: Numeric Field Identifier Missing, <211> is required.
L:550 M:282 W: Numeric Field Identifier Missing, <212> is required.
L:550 M:282 W: Numeric Field Identifier Missing, <213> is required.
L:550 M:200 E: Mandatory Header Field missing, <400> is required.
L:581 M:282 W: Numeric Field Identifier Missing, <211> is required.
L:581 M:282 W: Numeric Field Identifier Missing, <212> is required.
L:581 M:282 W: Numeric Field Identifier Missing, <213> is required.
L:581 M:200 E: Mandatory Header Field missing, <400> is required.
L:591 M:282 W: Numeric Field Identifier Missing, <211> is required.
L:591 M:282 W: Numeric Field Identifier Missing, <212> is required.
L:591 M:282 W: Numeric Field Identifier Missing, <213> is required.
L:591 M:200 E: Mandatory Header Field missing, <400> is required.
L:601 M:282 W: Numeric Field Identifier Missing, <211> is required.
L:601 M:282 W: Numeric Field Identifier Missing, <212> is required.
L:601 M:282 W: Numeric Field Identifier Missing, <213> is required.
L:601 M:200 E: Mandatory Header Field missing, <400> is required.
L:663 M:282 W: Numeric Field Identifier Missing, <211> is required.
L:663 M:282 W: Numeric Field Identifier Missing, <212> is required.
L:663 M:282 W: Numeric Field Identifier Missing, <213> is required.
L:663 M:200 E: Mandatory Header Field missing, <400> is required.